

Application No. 10/525,068
After Final Office Action of March 17, 2009

Docket No.: 0033-0983PUS1

AMENDMENTS TO THE SPECIFICATION

Please replace the paragraph beginning on page 31, line 4 and ending on line 9 with the following amended paragraph:

~~<Example 1>~~ <Referential Example 1>

A solution obtained by gradually adding 0.5 g of metallic molybdenum powder to 10 g of hydrogen peroxide water containing 30 % of hydrogen peroxide and making reaction was dissolved in 600 g of isopropyl alcohol, and stirred at 50°C for 1 hour with addition of 153.8 g (aluminum content: 100 g) of a commercially available aluminum pigment (7640NS by Toyo Aluminum K.K., solid content: 65 %).

Please replace the paragraph beginning on page 31, line 19 and ending on line 21 with the following amended paragraph:

~~<Examples 2 to 8>~~ <Referential Examples 2 to 8>

Aluminum pigments according to Referential Examples 2 to 8 were prepared similarly to Referential Example 1.

Please replace the paragraph beginning on page 32, line 23 and ending on page 33, line 2 with the following amended paragraph:

<Comparative Examples 1 to 3>

Aluminum pigments according to comparative examples 1 to 3 were prepared similarly to Referential Example 1. When preparing comparative example 2, however, the aluminum pigment caused abnormal reaction to remarkably generate hydrogen gas and agglomerate in the

process of reaction for forming a silica coat, and hence no aluminum pigment according to comparative example 2 was obtained. Tables 1 to 3 show manufacturing conditions for the aluminum pigments according to ~~Examples 1 to 10~~ Referential Examples 1—8, Examples 9-10 and comparative examples 1 to 3 and analytical values of compositions.

Please replace Table 1 on page 33 with the following amended Table 1:

Table 1. Manufacturing Conditions for Aluminum Pigments and Analytical Values of Compositions

Item			Referential Example 1	Referential Example 2	Referential Example 3	Referential Example 4	Referential Example 5
Aluminum Particles	Quantity	(g/g)	100	100	100	100	100
Molybdenum Compound or Pretreatment	Type		Mo/H ₂ O ₂ 30%aq ¹	phosphomolybdic acid ²	ammonium molybdate/water	Mo/H ₂ O ₂ 30%aq ¹	Mo/H ₂ O ₂ 30%aq ¹
	Quantity	(g/g)	0.5/10	0.5	0.5/50	0.5/10	0.5/10
Solvent	Type		IPA ³	IPA ³ /water	MF1G ⁴	IPA ³	IPA ⁴
	Quantity	(g)	600	600/50	600	600	600
Molybdenum Coat Covering Conditions	Temperature	(°C)	50	50	50	50	50
	Time	(hr)	1	1	1	1	1
Organic Silicon Compound	Type		TEOS ⁵	TEOS ⁵	tetramethoxysila ne	--	TEOS ⁵
	Quantity	(g)	40	40	30	--	80
Silane Coupling Agent	Type		--	--	--	methyl triethoxysilane	--
	Quantity	(g)	--	--	--	20	--
Hydrolytic Catalyst			triethanolamine	ethylenediamine	3-aminopropyl triethoxysilane	ammonia water	triethanolamine
Covering Conditions for Silica Coat and/or Coat Prepared From Silane Coupling Agent	Temperature	(°C)	50	70	90	70	50
	Time	(hr)	10	6	20	10	10
	pH value		8.5	9	9	7.5	8.5
Heat Treatment	Temperature	(°C)	105	200	500	200	105
	Time	(hr)	3	3	3	3	3
Analytical Value of Final Product (parts by weight with respect to 100 parts by weight of Al)		Mo	0.45	0.21	0.25	0.45	0.45
		Si	4.6	4.4	4.8	2.8	9.3

Please replace Table 2 on page 34 with the following amended Table 2:

Table 2. Manufacturing Conditions for Aluminum Pigments and Analytical Values of Compositions

Item			Referential Example 6	Referential Example 7	Referential Example 8	Example 9	Example 10	
Aluminum Particles	Quantity	(g)	100	100	100	100	100	
Molybdenum Compound or Pretreatment	Type		Mo/H ₂ O ₂ 30%aq ¹	phosphomolybdic acid ²	Mo/H ₂ O ₂ 30% aq ¹	3-aminopropyl triethoxysilane	Mo/H ₂ O ₂ 30% aq ¹	
	Quantity	(g/g)	0.5/10	2.5	0.5/10	3	0.5/10	
Solvent	Type		IPA ³	MFDG ⁴	IPA ³	IPA ³	IPA ³	
	Quantity	(g)	600	600	600	600	600	
Molybdenum Coat Covering Conditions	Temperature	(°C)	50	50	50	--	--	
	Time	(hr)	1	1	1	--	--	
Organic Silicon Compound	Type		TEOS ⁵	tetramethoxysilane	TEOS ⁵	TEOS ⁵	TEOS ⁵	
	Quantity	(g)	160	15	40	30	30	
Silane Coupling Agent	Type		--	--	--	DTMS ⁶	PTES ⁷	
	Quantity	(g)	--	--	--	10	10	
Hydrolytic Catalyst			triethanolamine	3-aminopropyl triethoxysilane	nitric acid	monoethanolamine	monoethanolamine	
Covering Conditions for Silica Coat and/or Coat Prepared From Silane Coupling Agent	Temperature	(°C)	50	90	50	50	50	
	Time	(hr)	10	20	40	10	10	
	pH value		8.5	9	2.5	8.5	8.5	
Heat Treatment	Temperature	(°C)	105	200	105	105	105	
	Time	(hr)	3	3	3	3	3	
Analytical Value of Final Product (parts by weight with respect to 100 parts by weight of Al)			Mo	0.45	1.2	0.45	0	0.45
			Si	17.5	2.5	1.8	4.7	4.5

Please replace the paragraph beginning on page 36, line 5 and ending on line 9 with the following amended paragraph:

<Performance Evaluation>

The aluminum pigments obtained according to ~~Examples 1 to 10~~ Referential Examples 1-8, Examples 9-10 and comparative examples 1 to 3 were subjected to performance evaluation on the basis of the following measuring or evaluation method. Tables 4 to 6 show the evaluation results.

Please replace Table 4 on page 38 with the following amended Table 4:

Table 4: Evaluation Results of Aluminum Pigment and Water-Based Paint

Item		Referential Example 1	Referential Example 2	Referential Example 3	Referential Example 4	Referential Example 5
Evaluation Result of Aluminum Pigment	Stability	0	0	0	0	0
Evaluation Result of Water-Based Paint	Gas Yield (cc)	0	0	0	0	0
	Color Tone of Painted Plate	4	4	4	5	4
	Moisture Resistance/ Adhesiveness of Film	3	3	4	4	3

Please replace Table 5 on page 39 with the following amended Table 5:

Table 5: Evaluation Results of Aluminum Pigment and Water-Based Paint

Item		Referential Example 6	Referential Example 7	Referential Example 8	Example 9	Example 10
Evaluation Result of Aluminum Pigment	Stability	0	0	0	0	0
Evaluation Result of Water-Based Paint	Gas Yield (cc)	0	0	0	0	0
	Color Tone of Painted Plate	3	5	5	5	5
	Moisture Resistance/ Adhesiveness of Film	3	4	3	5	5

Please replace the paragraph beginning on page 39, line 5 and ending on line 9 with the following amended paragraph:

It is understood from the results shown in Tables 4 to 6 that each of the water-based paints blended with the aluminum pigments according to ~~Examples 1 to 10~~ Examples 9-10 generates absolutely no gas and is remarkably excellent in color tone of the painted plate and base adhesion of the film as compared with each of the water-based paints blended with the aluminum pigments according to comparative examples 1 to 3.